

MICRO SWITCH
a Honeywell Division
FED. MFG. CODE 91929

LINEAR OUTPUT HALL
EFFECT TRANSDUCER

CATALOG LISTING
SS94A1H

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Top view dimensions: .300 ± .010 (width), .150 (width of central square), .200 (height of central square), .600 ± .010 (height), .150 (width of bottom section), 2X .10 (width of bottom section). Callouts: 1 (centerline of hall cell), 2 (magnetic flux direction), 3 (output type), 4 (output type), 5 (output type), 6 (output type).

Side view dimensions: .070 MAX (height), .020 (width). Callout: 2 (magnetic flux direction). Text: FRONT SIDE OR MAGNETIC SIDE OF CERAMIC.

PARAMETER	MIN	TYP	MAX	UNITS	CONDITIONS/REMARKS
SUPPLY VOLTAGE	6.6	8.0	12.6	VOLTS	-40°C TO +125°C
SUPPLY CURRENT		13	30	mA	MAX @ 12.6 V @ -40°C
OUTPUT CURRENT			1	mA	SINKING OR SOURCING
OUTPUT SPAN		.625 V _S		VOLTS	-500G TO +500G @ 25°C /5
SENSITIVITY	4.90	5.0	5.10	mV/g	@ 8.0 V _S & 25°C
LINEARITY	-1.5	-.8	0.0	% OF SPAN	DEV FROM STR LINE THRU -500 AND +500
V _{OUT} @ 0 GAUSS	3.960	4.000	4.040	VOLTS	25°C
TEMP ERROR-NULL	-.02		+.02	%/°C	-40°C TO +125°C
TEMP ERROR-GAIN	-.02		+.02	%/°C	-40°C TO +125°C

BLOCK DIAGRAM CURRENT SINKING OR SOURCING OUTPUT

NOMINAL TRANSFER CHARACTERISTICS AT 8.0 VDC

NOTES

- 1 - CENTERLINE OF HALL CELL (IC) ONLY. THE LOCATION OF THE CERAMIC COVER IS NOT SPECIFIED
- 2 - THE + MAGNETIC FLUX IS IN THIS DIRECTION (THIS ASSUMES THE CONVENTION THAT THE DIRECTION OF THE EXTERNAL FLUX OF A MAGNET IS FROM THE NORTH TO THE SOUTH POLE OF THE MAGNET)
- 3 - THE DEVICE CANNOT BE DAMAGED BY MAGNETIC OVERDRIVE
- 4 - OUTPUT TYPE - RATIOMETRIC
- 5 - THE OUTPUT IS CLAMPED AT 9.0 VDC MINIMUM, 9.5 VDC TYPICAL
- 6 - ARTWORK TYPICAL

THIRD ANGLE PROJECTION

SCALE 5 : 1

DO NOT SCALE PRINT

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE

ONE PLACE (.0) ±.030

TWO PLACE (.00) ±.015

THREE PLACE (.000) ±.005

ANGLES ±

WEIGHT

CAUTION
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICE

ESD SENSITIVITY:
CLASS 3